SERV. 5793

SERVICE DATA
FILE NO. 110-348

PPHU FOXEL Jolanta
ul.Dębowa 3, 55-090 Długo
tel.71/315 2119 kom.509 47
NIP 694-151-45-27 Regon 3
mBank 61 1140 2004 0000 3902 5893 0333
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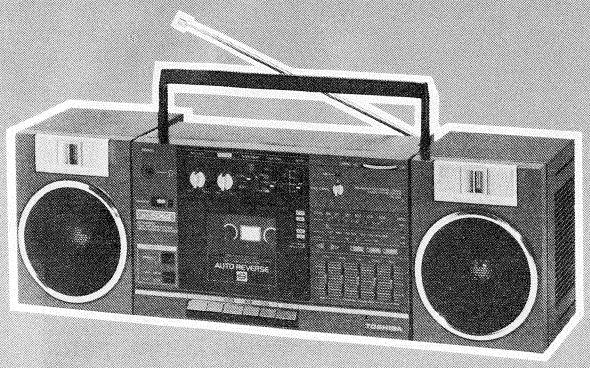
TOSHIBA
STEREO RADIO CASSETTE RECORDER
RT-SX4



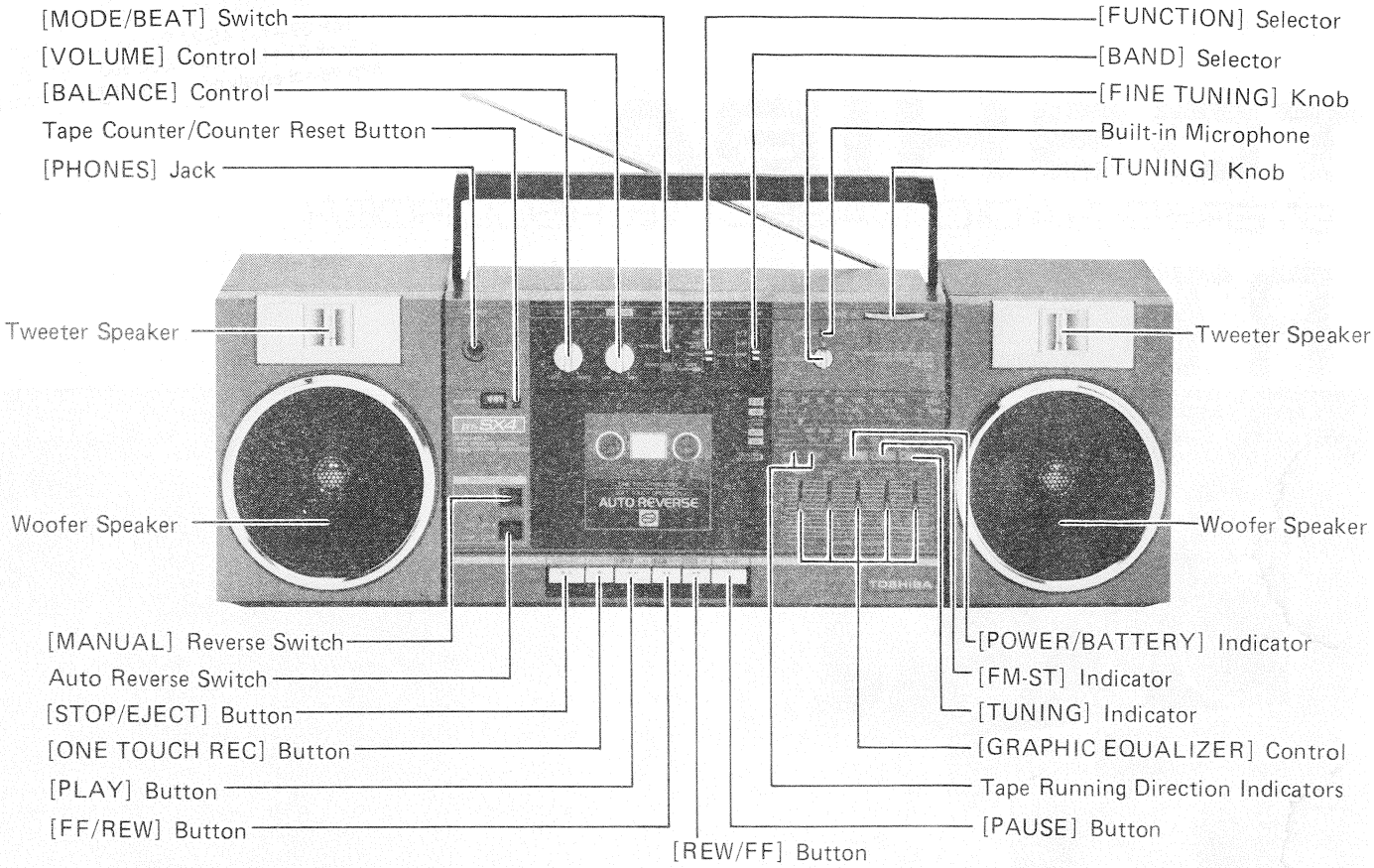
SPECIFICATIONS

Cassette Tape Used:	Nominal: C-30, C-60, C-90, C-120
Tape Speed:	4.8 cm/sec.
Track System:	Four-track two-channel stereo-phonic
Recording System:	AC bias
Erasing System:	Multipolar magnet erasing
Frequency Response:	40 Hz to 14 kHz
Receiving Frequency:	FM: 88 MHz to 108 MHz SW: 5.9 MHz to 15.4 MHz MW: 526.5 kHz to 1606.5 kHz LW: 145 kHz to 270 kHz
Intermediate Frequency:	FM: 10.7 MHz LW/MW/SW: 460 kHz
Antenna:	FM/SW: telescopic antenna LW/MW: ferrite-core antenna
Speakers:	100 mm (dia.) dynamic x 2 20 mm (dia.) piezo-electric type x 2
Jacks:	[MIC] jack x 2, Impedance 200 ohm to 2K ohm [REC/PB] jack x 1 [PHONO/AUX] jack x 2 [PHONES] jack x 1 [SPEAKER] jack x 2
Power Supply:	AC 220V, 50 Hz (TE, IT) AC 240V, 50 Hz (TU) DC 12V IEC R20 "D" size x 8
Output Power:	4.5W + 4.5W, 10% Distortion
Power Comsumption:	25W
Dimensions:	529(W) x 171(H) x 144(D)mm
Weight:	3.9 kg (without batteries)

Specifications are subject to change without notice.

TE, TU, IT
PRINTED IN JAPAN 22905308 June, 1984 (S)

1. OPERATING CONTROLS



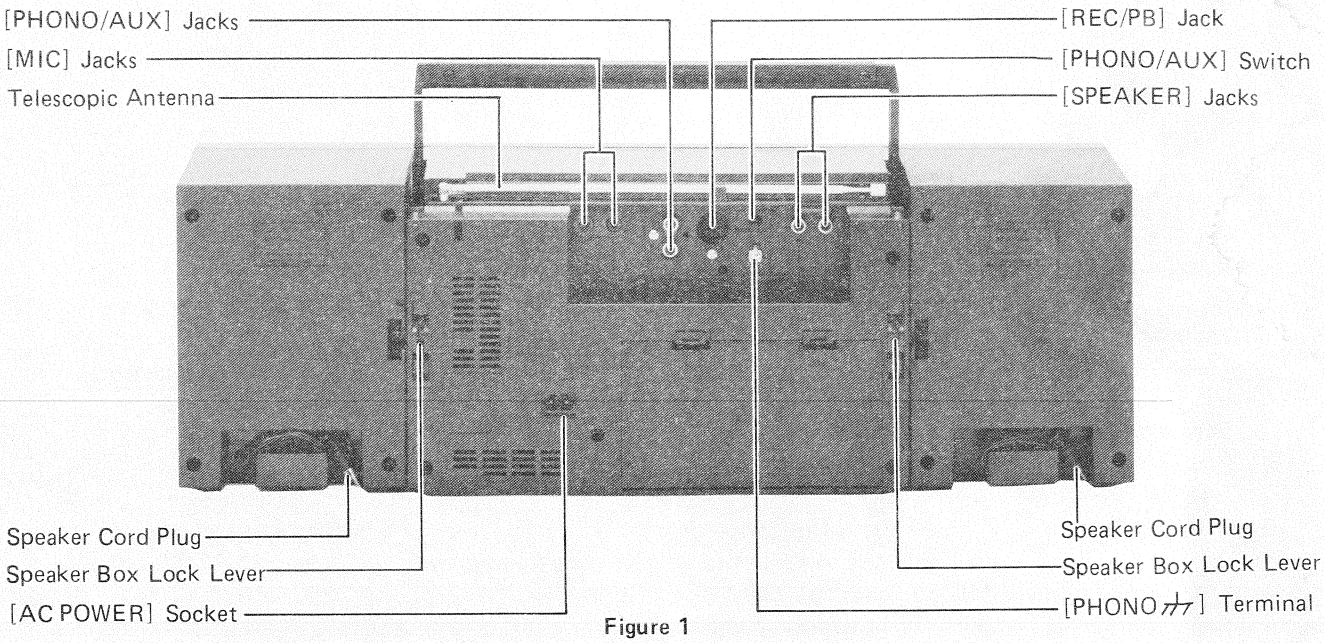
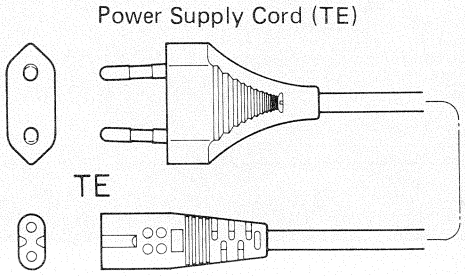
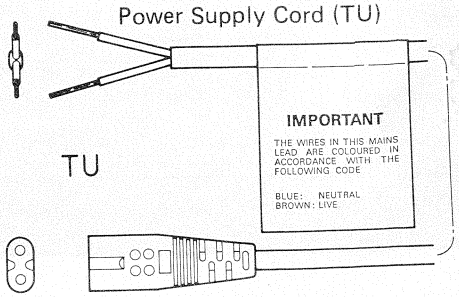


Figure 1




Power Supply Cord (TU)
TU
IMPORTANT
THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE
BLUE: NEUTRAL
BROWN: LIVE

2. DISASSEMBLY INSTRUCTIONS

FRONT CABINET REMOVAL

1. Separate speakers from main unit by lifting levers Ⓐ which lock both speakers in main unit.
2. Open cassette cover with EJECT/STOP Button pushed.
   Remove cassette cover with four hooks Ⓑ pushed.
3. Remove fours screws Ⓒ , and the front cabinet will be removed.

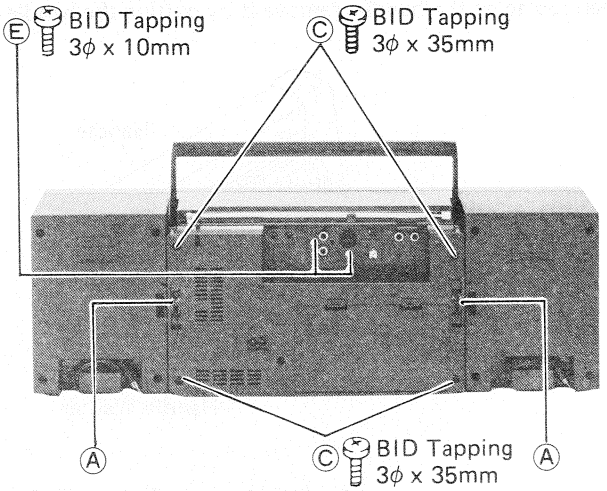


Figure 2

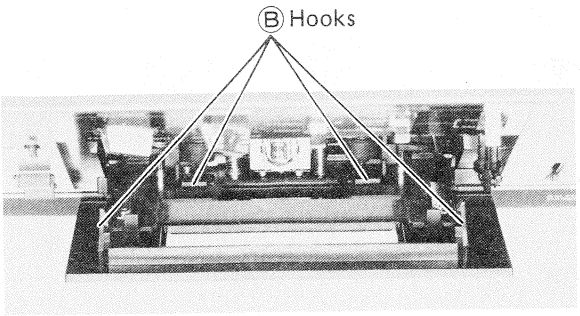


Figure 3

MECHANISM ASS'Y REMOVAL

1. Remove three screws Ⓓ , and the MECHANISM ASS'Y will be removed.

MAIN P.C. BOARD REMOVAL

1. Remove two screws Ⓔ fixing Jack from back babinet, and the Main P.C. Board will be removed.

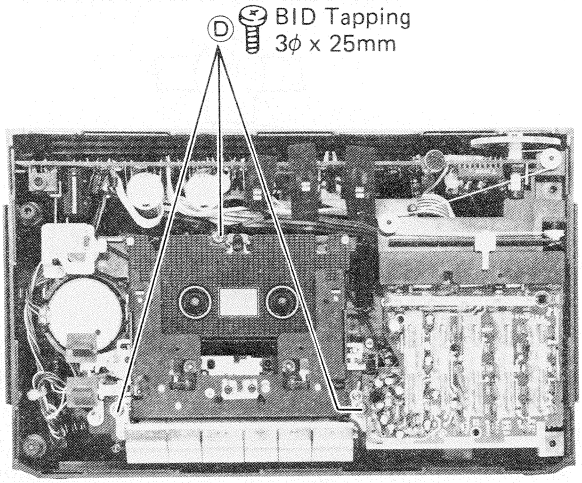


Figure 4

POWER SUPPLY P.C. BOARD REMOVAL

1. Remove two screws Ⓕ and one screw Ⓖ , and the power supply P.C. Board will be removed.

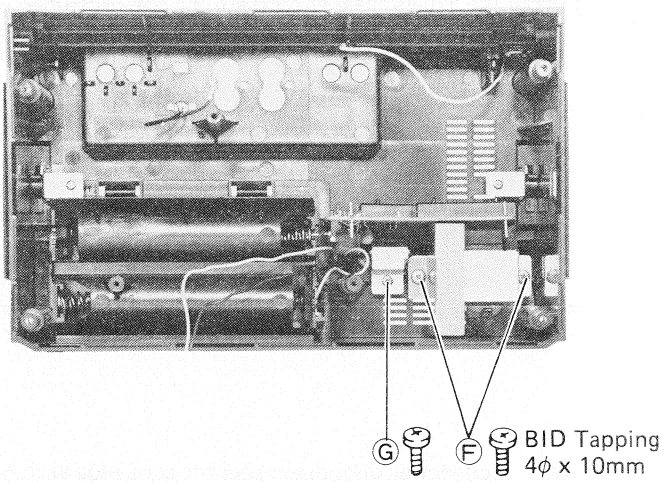


Figure 5

3. HANDLE REMOVAL

When replacing the handle, remove it by cutting the handle washer shown in figure below.

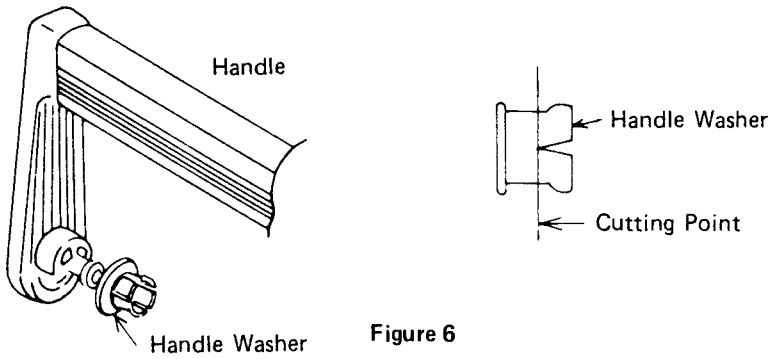


Figure 6

4. METHOD OF P.R.C. REPAIRING

Cut defective printed-resistor-circuit off with knife. See Figure 7. Solder the replacement resistor (See replacement resistor parts list) on the opposite side of printed-circuit-board. See Figure 8.

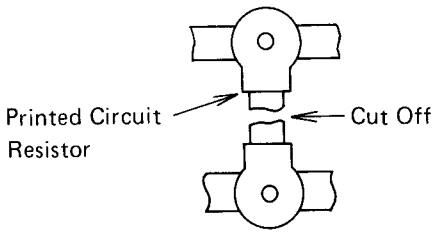


Figure 7

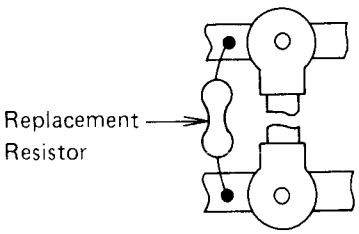


Figure 8

5. SPEAKER BOX MOUNTING

RIGHT SIDE SPEAKER MOUNTING

1. Set speaker box locking lever to "RELEASE" position.
2. Put the speaker box and main unit together so that the main unit's claw and the ressessed area of the speaker box, and the protruded part of speaker box locking lever and the slot of the speaker box are engaged each other.
3. Set speaker box locking lever to "LOCK" position.
4. Take out speaker cord and connect the cord to [SPEAKER] jack.
5. Wrap the excess speaker cord around the protruded part on rear of the speaker box.
   Mount left side speaker in the same procedures 1 to 5.

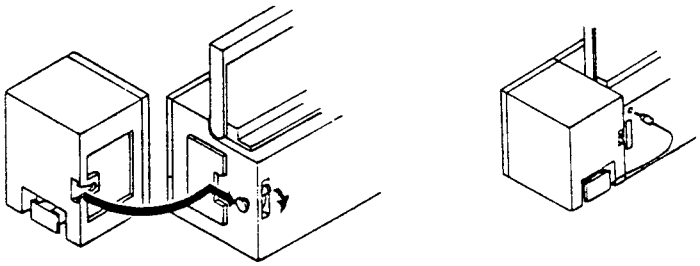


Figure 9

Note: 1. Connect or disconnect speaker cord plug with [FUNCTION] switch to set "POWER OFF /TAPE" position.
2. Speaker box may be removed from main unit if the speaker box locking lever is remained to "RELEASE" position.

6. DIAL CORD RESTRINGING

1. Turn dial drum clockwise fully.
2. Proceed stringing in steps ① to ⑨, and finally hook the spring.
3. After stringing, turn tuning knob clockwise fully and position dial pointer at the specified point on the scale.

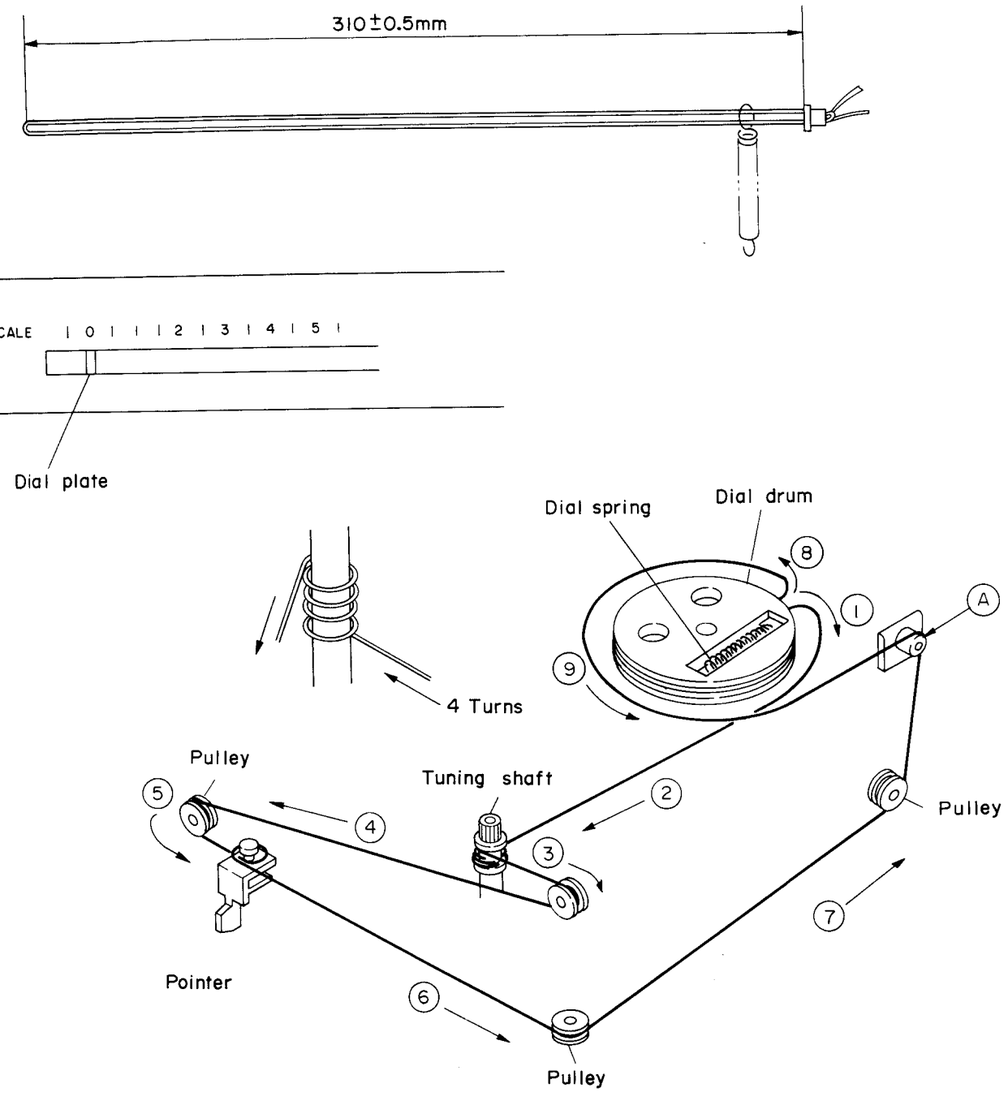


Figure 10

7. BLOCK DIAGRAM

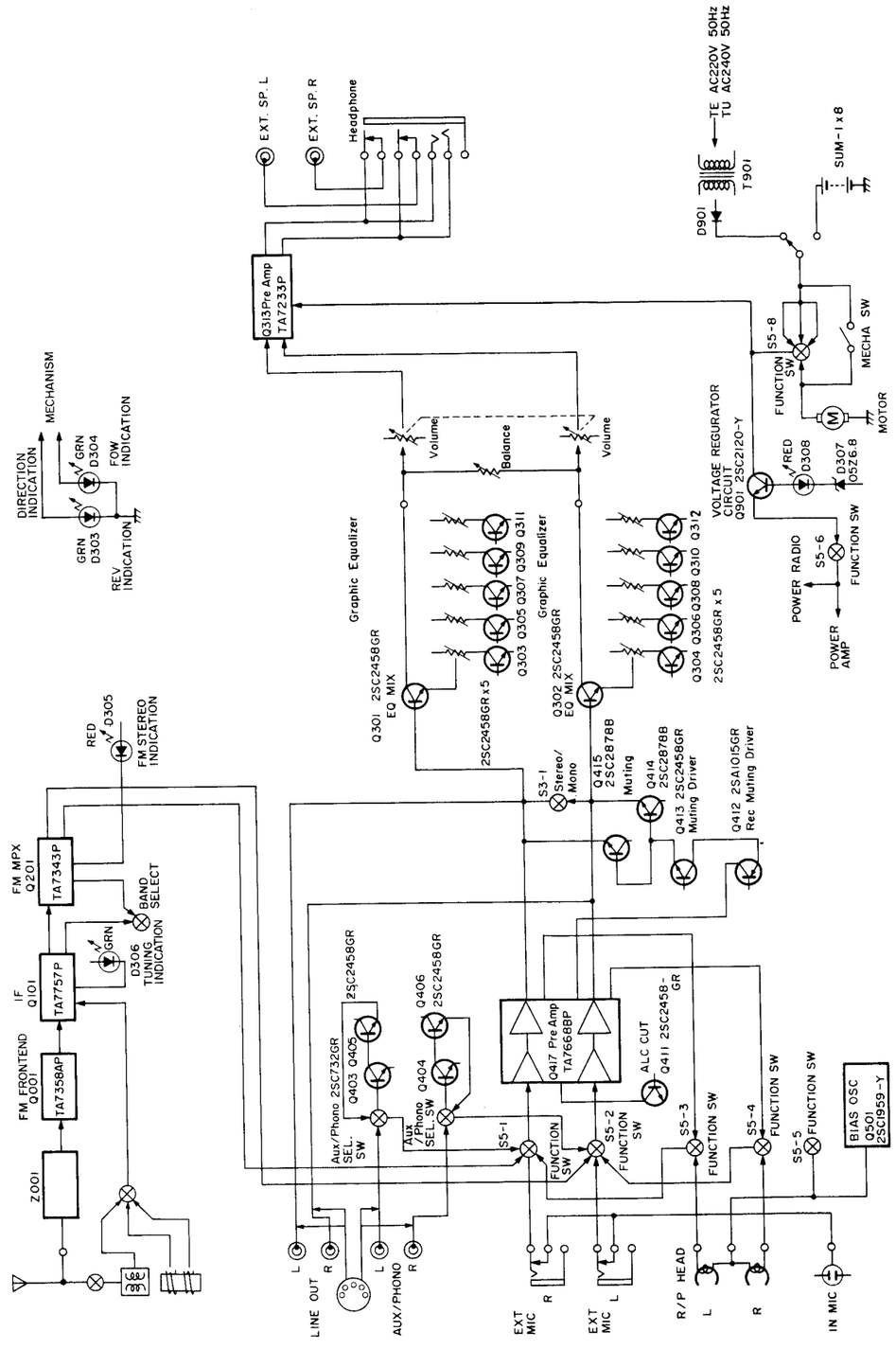


Figure 11

8. ADJUSTMENTS

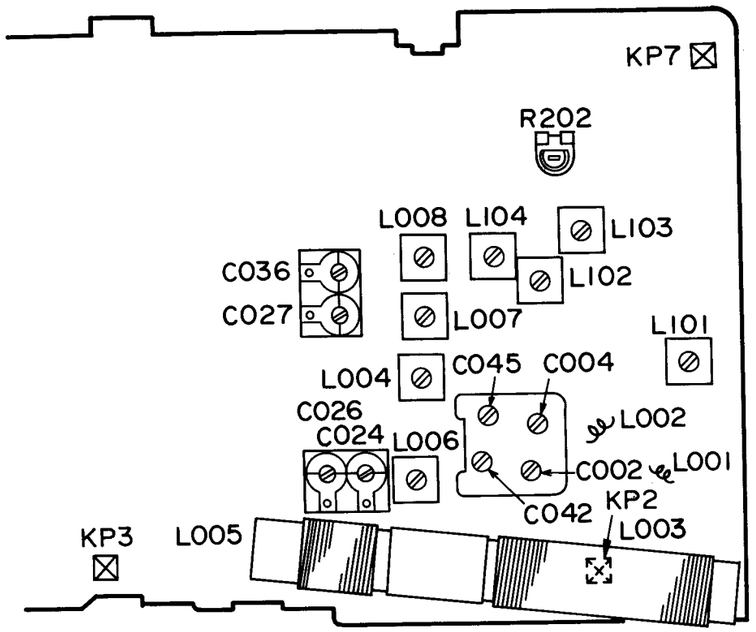


Figure 12

TEST EQUIPMENT

1. Signal generator with a frequency range of at least from 140 kHz to 18 MHz AM.
2. Oscilloscope with a side range amplifier of approximately 100 kHz.
3. Test loop – a coil of any size wire, one turn or more. (LW & MW)
4. A 30 ohm dummy antenna. (SW)
5. VTVM

AM ALIGNMENT

1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period.
2. Using the test loop across the output of the signal generaot, inductively connect the signal generator to the radio.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.
5. Set volume control at mid-position.
6. Proceed as outlined in the IF-LW, MW and SW ALIGNMENT CHART.

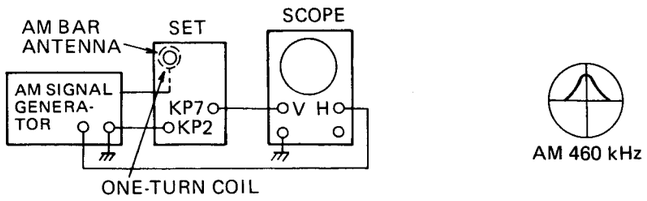


Figure 13

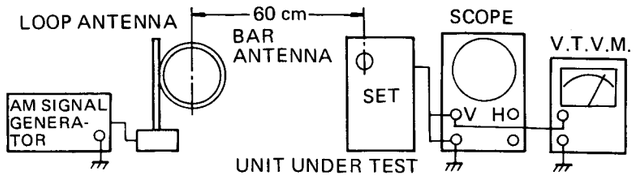


Figure 14

MW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	460 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	L102, L104	Adjust for maximum indication.
MW	2	510 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L007 (MW)	Adjust for maximum indication.
	3	1650 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim C045	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L005 (MW)	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim. C026	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

LW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
LW	1	142 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L004	Adjust for maximum indication.
	2	280 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C027	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	160 kHz	Tune to Signal.	Ant. Coil L003	Adjust for maximum indication.
	5	280 kHz	Tune to Signal.	Ant. Trim. C024	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

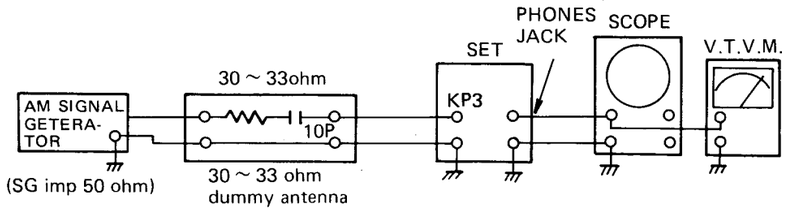


Figure 15

SW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
SW	1	5.75 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L008	Adjust for maximum indication.
	2	16 MHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C035	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	6.5 MHz	Tune to Signal.	Ant. Coil L006	Adjust for maximum indication.
	5	14 MHz	No Adjustment	Ant. Trim. C042	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

FM-IF ALIGNMENT

1. Set the select switch to FM position.
2. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.
3. Connect the RF SWEEP SIGNAL OUTPUT from the signal generator through the loop antenna to the receiver.
4. Connect the oscilloscope vertical input directly to the test point KP7 and connect the shielded lead to the test point E or chassis ground.
5. Connect the SWEEP VOLTAGE OUTPUT of the sweep generator to the oscilloscope.
6. Proceed as outlined in the FM-IF ALIGNMENT CHART.

FM-IF ALIGNMENT CHART

Step	Signal coupling	Equip.	Tuning	Connection	Adjust. point	Pattern
1	Connect sweep generator output to a three-turn loop antenna of 10 cm diameter.	Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker.	Tuning Knob fully counter-clockwise (Lowest Frequency.)	Set scope for connecting output signal from KP7 to vertical axis of scope "V" and sweep generator output to horizontal axis "H".	L101 L103	Turn the IF Transformer L103 fully counterclockwise to obtain a single peak. Adjust coil L101 in order until the best single peak is obtained. Figure 17. Finally turn the coil L103 to obtain S curve. See Figure 18.

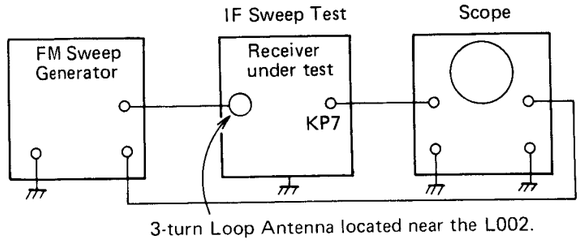


Figure 16

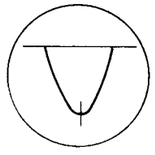


Figure 17

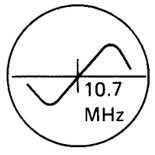


Figure 18

FM-RF ALIGNMENT

1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set the volume control to mid-position.
5. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
6. Proceed as outlined in the FM-RM ALIGNMENT CHART.

FM-RF ALIGNMENT CHART

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.5 MHz	Tuning Knob Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L002	Adjust for maximum output indication.
2	108 MHz	Tuning Knob Fully Clockwise (Highest Frequency)	OSC. Trim. C004	Adjust for maximum output indication.
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal	Ant. Coil L001	Adjust for maximum output indication.
5	106 MHz		Ant. Trim. C002	
6	Repeat steps 4 and 5 as required.			

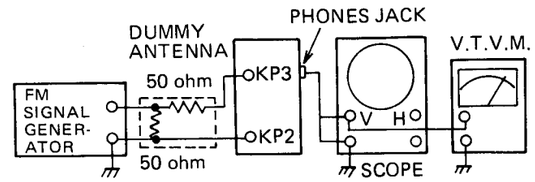


Figure 19

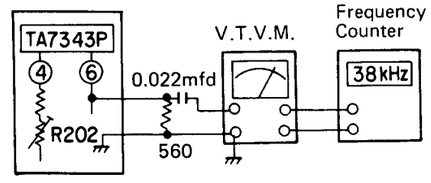


Figure 20

FREE RUN FREQUENCY ALIGNMENT

Adjust R202 under no signal condition so as to obtain 38 kHz ± 75 Hz.

CAUTION:

When realigning the FM Receiving Frequency, the highest end of the frequency range should not be move than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in West Germany.

AUTO REVERSE SYSTEM

A 6.3 kHz standard tape must be used for this adjustment. Connect a VTVM or an oscilloscope to the PHONES jack and adjust the forward azimuth and the reverse one by using a philips screwdriver to maintain the maximum output voltage.

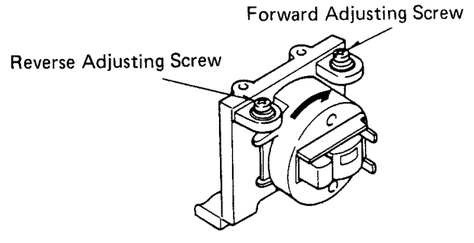


Figure 21

TAKE-UP/SUPPLY REEL TENSION

1. Insert cassette torque meter (HARTAK X-87 Torquette).
2. Press PLAY button and read torque meter. Torque should be 28 to 52 gcm.
3. Release PLAY button and press REWIND button. Torque should be 75 to 125 gcm. If necessary, clean take-up reel or drive belt with alcohol, or replace belt.

9. ELECTRICAL PARTS LOCATIONS

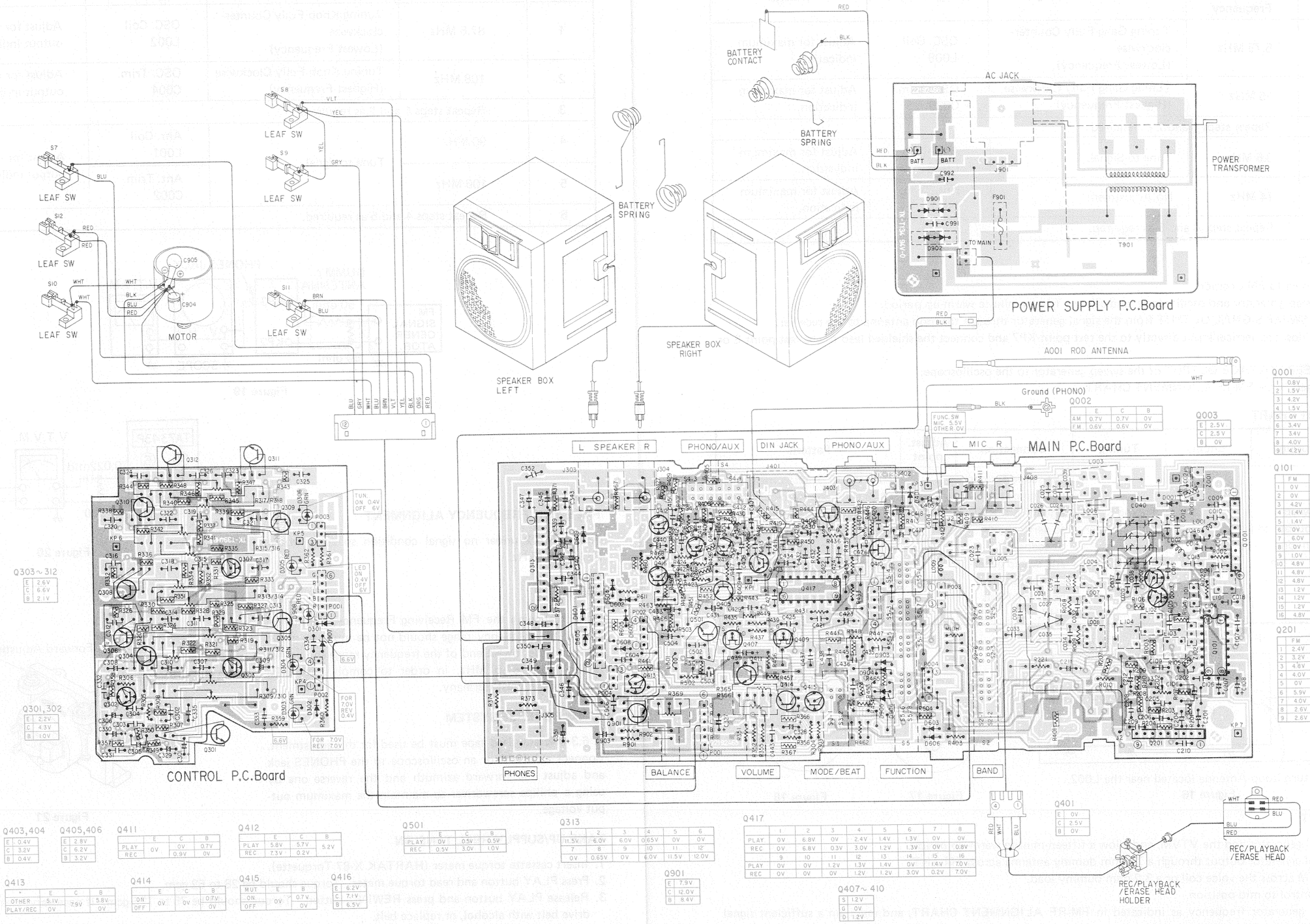
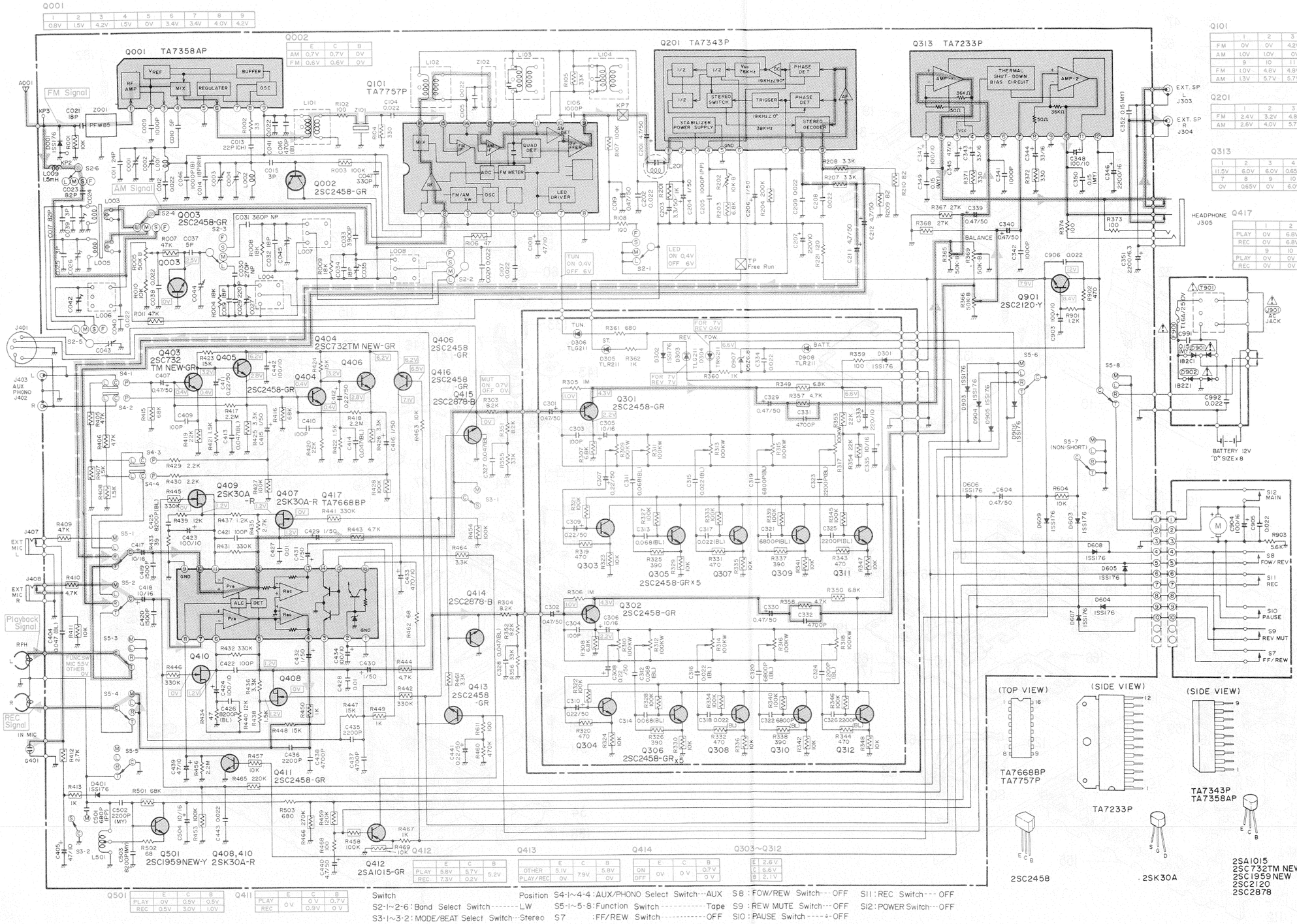


Figure 22

10. SCHEMATIC DIAGRAM



Q001

1	2	3	4	5	6	7	8	9
0.8V	1.5V	4.2V	1.5V	0V	3.4V	3.4V	4.0V	4.2V

Q002

	E	C	B
AM	0.7V	0.7V	0V
FM	0.6V	0.6V	0V

Q101

	1	2	3	4	5	6	7	8
FM	0V	0V	4.2V	1.4V	1.4V	0V	6.0V	0V
AM	1.0V	1.0V	0V	1.4V	1.4V	0V	6.0V	0V
	9	10	11	12	13	14	15	16
FM	1.0V	4.8V	4.8V	4.8V	1.2V	1.2V	1.2V	4.8V
AM	1.3V	5.7V	5.7V	5.7V	1.2V	1.2V	1.1V	5.7V

Q201

	1	2	3	4	5	6	7	8	9
FM	2.4V	3.2V	4.8V	4.0V	0V	5.9V	4.0V	2.6V	2.6V
AM	2.6V	4.0V	5.7V	4.0V	0V	6.0V	5.7V	3.2V	3.2V

Q313

1	2	3	4	5	6
11.5V	6.0V	6.0V	0.65V	0V	0 V
7	8	9	10	11	12
0V	0.65V	0V	6.0V	11.5V	12.0V

Q417

	1	2	3	4	5	6	7	8
PLAY	0V	6.8V	0V	2.4V	1.4V	1.3V	0V	0V
REC	0V	6.8V	0.3V	3.0V	1.2V	1.3V	0V	0.8V
	9	10	11	12	13	14	15	16
PLAY	0V	0V	1.2V	1.3V	1.4V	0V	1.4V	7.0V
REC	0V	0V	0V	0V	1.2V	1.2V	3.0V	0.2V	7.0V

Q412

	E	C	B
PLAY	5.8V	5.7V	5.2V
REC	7.3V	0.2V	

Q413

	E	C	B
OTHER	5.1V	7.9V	5.8V
PLAY/REC	0V		0V

Q414

	E	C	B
ON	0V	0 V	0.7V
OFF			0 V

Q303~Q312

E	2.6V
C	6.6V
B	2.1V

Q501

	E	C	B
PLAY	0V	0.5V	0.5V
REC	0.5V	3.0V	1.0V

Q411

	E	C	B
PLAY/REC	0 V	0 V	0.7V
		0.9V	0 V

Switch Position

S2-1~2-6: Band Select Switch------LW
S3-1~3-2: MODE/BEAT Select Switch--Stereo
S4-1~4-4: AUX/PHONO Select Switch---AUX
S5-1~5-8: Function Switch----------Tape
S7 : FF/REW Switch----------OFF
S8 : FOW/REW Switch---OFF
S9 : REW MUTE Switch---OFF
S10 : PAUSE Switch-----OFF
S11 : REC Switch---OFF
S12 : POWER Switch---OFF

Figure 23

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

11-1. MECHANISM EXPLODED VIEW (UPPER)

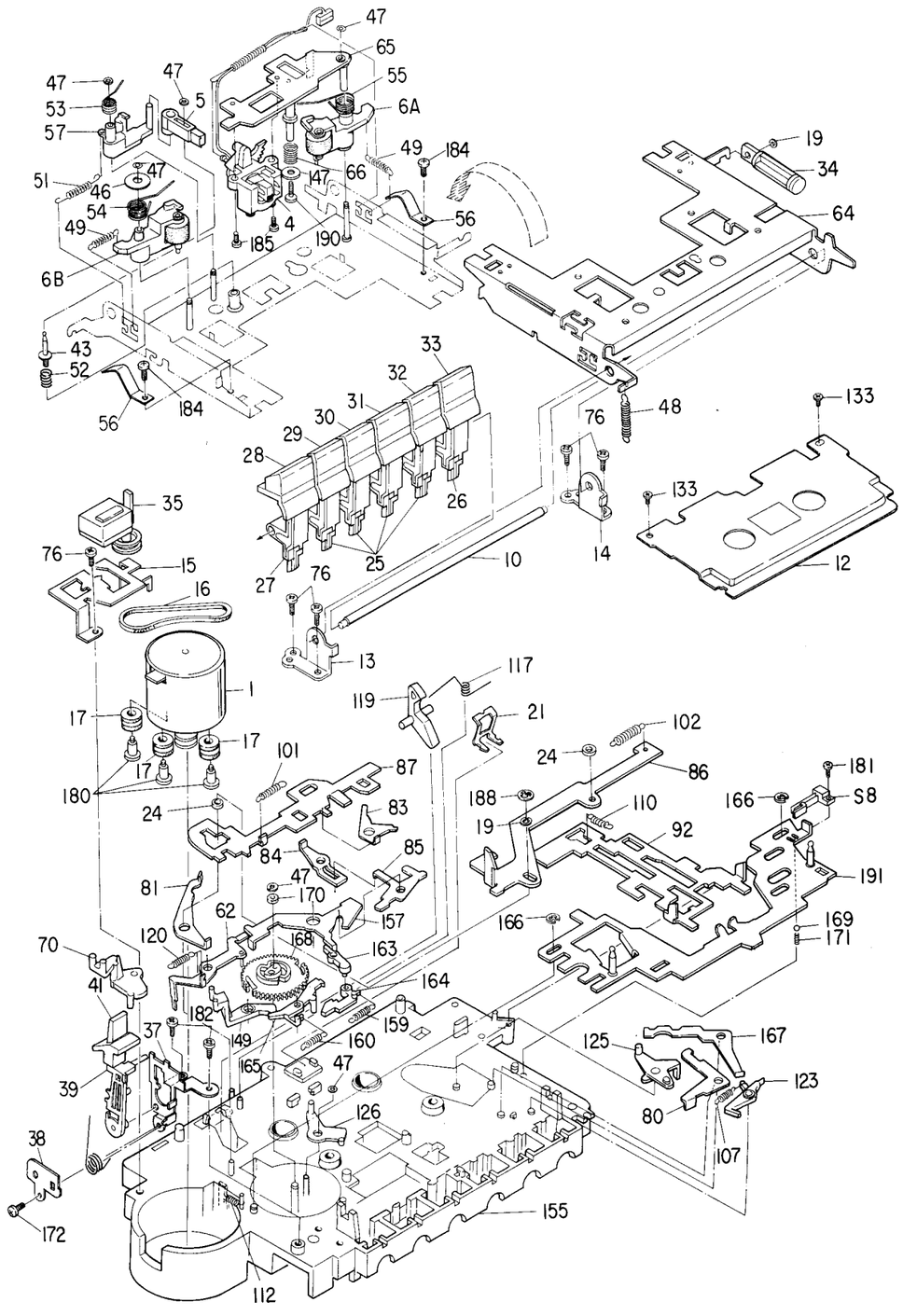


Figure 24 **NOTE:** Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering they items.

11-2. MECHANISM EXPLODED VIEW (LOWER)

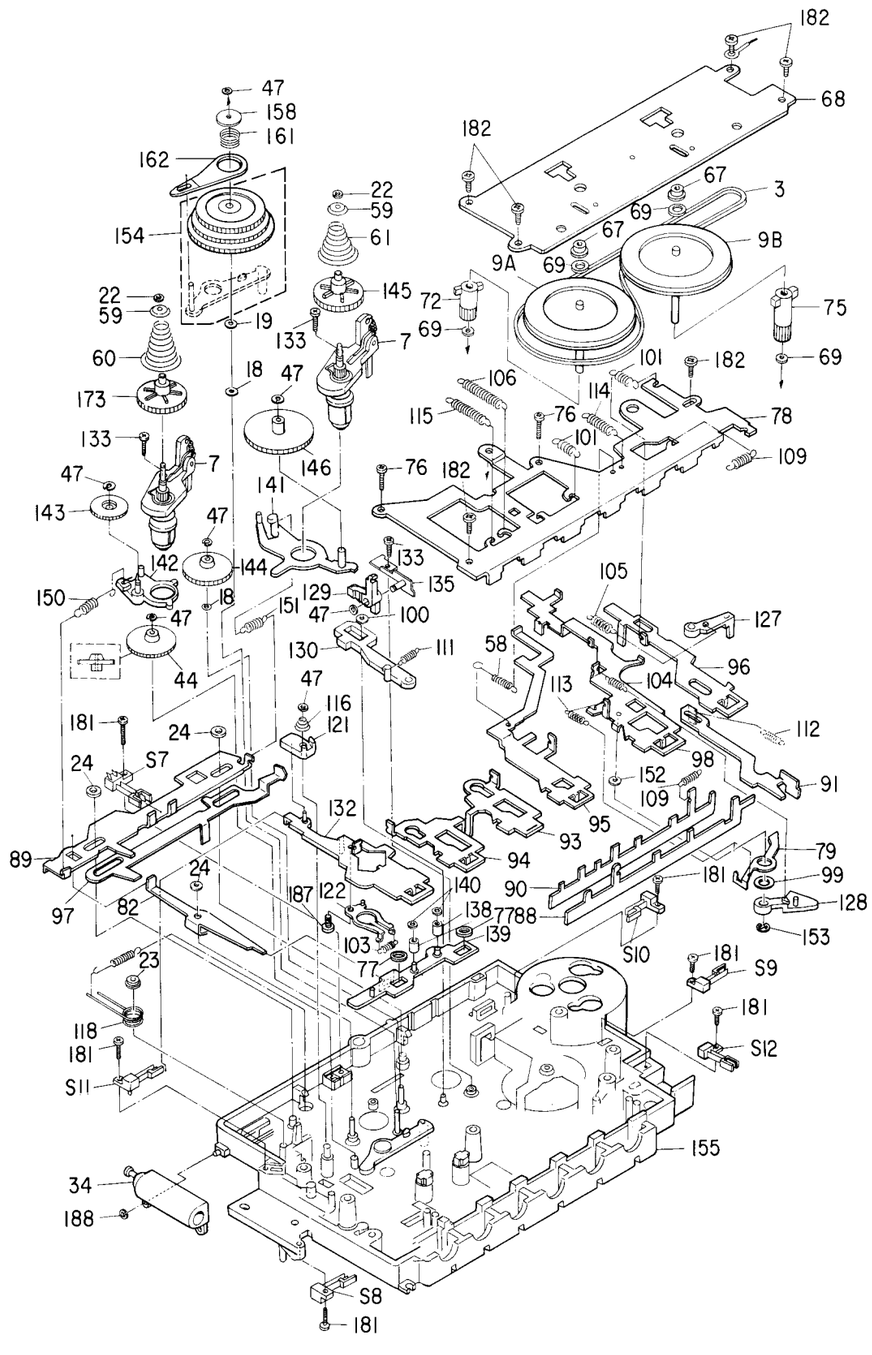


Figure 25 **NOTE:** Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering they items.

12. MECHANISM PARTS LIST

Symbol No.	Part No.	Description
1	25791754	Motor Ass'y
3	25755589	Belt, Drive
4	22217453	REC/PLAY Head Ass'y
5	22218269	Erase Head Ass'y
6A	25717586	Pressure Roller Ass'y, Right
6B	25717587	Pressure Roller Ass'y, Left
7	25712443	Reel Base Ass'y
9A	25717583	Flywheel Ass'y, Right
9B	25717584	Flywheel Ass'y, Left
12	25734500	Mechanism Cover
16	25759008	Belt, Counter
17	25761327	Cushion, Motor
18	25766099	Washer
19	25766112	Washer
21	25779371	Spring, Cassette Holder
22	25766170	Washer
23	25783226	Bush
24	25783239	Bush
25	25784104	Button Lever, Play
26	25784105	Button Lever, Pause
27	25784106	Button Lever, Stop
28	25784119	Button, Stop
29	25784120	Button, Rec
30	25784121	Button, Play
31	25784122	Button, Rew
32	25784123	Button, FF
33	25784124	Button, Pause
34	25791648	Air Damper
35	25873294	Counter, TAPE
36	25726705	Bush
38	25779374	Spring
39	25784108	Operation Lever, Manual
40	25784109	Operation Lever, Change
41	25784193	Button, Manual Reverse
42	25726742	Speacer
43	25727292	Pin, REC Lever
47	25766050	Washer
48	25776740	Spring
51	25776651	Spring
52	25777283	Spring
53	25778140	Spring
54	25778142	Spring, Pressure Roller, L
55	25778143	Spring, Pressure Roller, R
56	25779376	Spring, Holder
57	25784102	Lever, REC
58	25776699	Spring
59	25754468	Spring RTN, Play Gear
60	25777343	Spring, Play Gear
61	25777344	Spring, Play Gear
64	25797001	Cassette Holder Ass'y

Symbol No.	Part No.	Description
65	25797002	Head Lever Ass'y
66	25777334	Spring, Head Lever
67	25725456	Bearing
69	25766151	Washer
70	25784107	Relay Lever
72	25756386	Flywheel Gear, Right
75	25756385	Flywheel Gear, Left
76	22707299	Screw, 2ϕ x 8mm, BID Tapping
77	25726713	Spacer
79	25747164	Lever, REC Stop
88	25749030	Switch Slider
99	25766137	Washer
100	25766172	Washer
101	25776633	Spring
102	25776638	Spring
103	25776639	Spring
104	25776641	Spring
105	25776642	Spring
106	25776643	Spring
107	25776644	Spring
109	25776647	Spring
110	25776648	Spring
111	25776652	Spring
112	25776661	Spring
113	25776662	Spring
114	25776668	Spring
115	25776671	Spring
116	25777239	Spring
117	25778039	Spring
118	25778141	Spring
119	25782557	Lever, REC Lock
120	25776636	Spring
121	25784056	Lever, Pause Lock
122	25784091	Lever, Pause Assist
123	25784092	Lever, Switch Lock
125	25784094	Lever, Relay
126	25784098	Lever, Release
127	25784099	Lever, Stop
128	25784100	Lever, REC Turn
129	25784101	Lever, Assist Lock
130	25784103	Lever, Assist
133	22707298	Screw, 2ϕ x 6mm, BID Tapping
141	25797003	REW Lever Ass'y
142	25797004	FF Lever Ass'y
143	25756376	FF Gear
144	25756378	FF Gear
145	25756379	Play Gear
146	25756390	REW Gear

Symbol No.	Part No.	Description
147	25766163	Washer
150	25776631	Spring
151	25776664	Spring
152	25766042	Washer
153	22706008	E Ring, 1.5ϕ
154	25713582	Take Up Gear Ass'y
155	25791700	Chassis Ass'y
158	25754442	Washer
159	25776634	Spring
160	25776635	Spring
161	25777266	Spring
162	25784058	Lever, Frict
163	25784095	Lever, ASO
164	25784096	Lever, ASO Release
165	25784097	Lever, ASO Select
166	22703118	E Ring, 2ϕ
167	25748993	Lever, Relay
168	25756381	Gear, Reverse
169	25757129	Steel Ball, 2ϕ
170	25766097	Washer
171	25777284	Spring
172	22707367	Screw, 2.6ϕ x 8mm, DTBID
180	22707747	Special Screw
181	22707870	Screw, 2ϕ x 8mm, PAN Tapping
182	22707301	Screw, 2.6ϕ x 8mm, BID Tapping
184	22707278	Screw, 2ϕ x 3mm, BID
185	22707265	Screw, 2ϕ x 4mm, BID
187	22707426	Screw, 2ϕ x 5mm, DTBID
188	20798037	CS Ring, 9ϕ

Symbol No.	Part No.	Description

13. EXPLODED VIEW CABINET

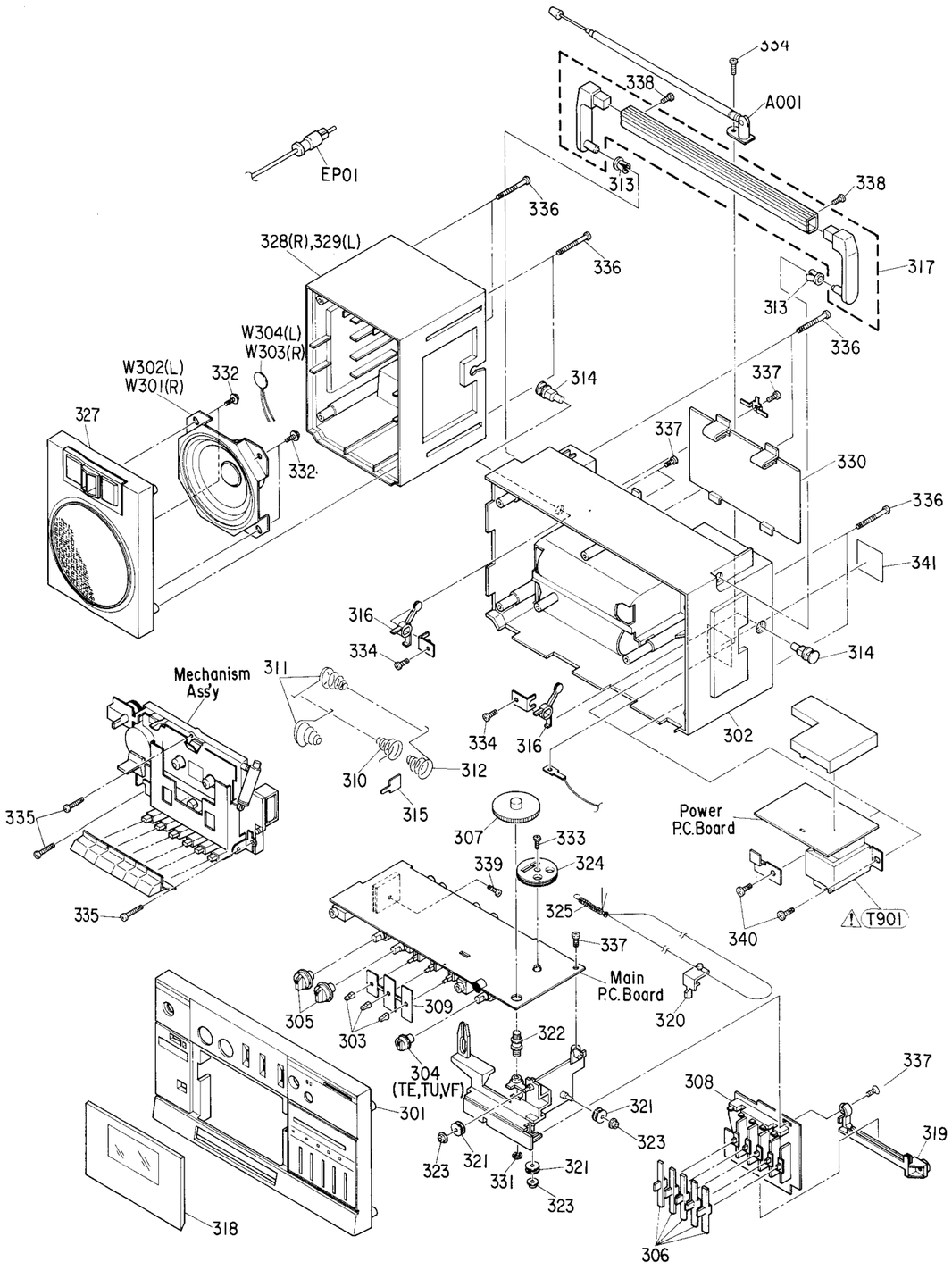


Figure 26 **NOTE:** Parts excluded in the parts list are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering they items.

14. CABINET PARTS LIST

CAUTION:
The mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should by replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
301	25883407	Front Cabinet Ass'y
302	25883410	Back Cabinet Ass'y
303	25837993	Knob, Mode/Function/Band
304	25886203	Knob, MIX Volume
305	25886204	Knob, Volume
306	25886205	Knob, Tone
307	25886206	Knob, Tuning
308	25844282	LED Holder
309	25857249	Switch Cover, 3P
310	25772571	Battery Spring (–)
311	25777124	Battery Spring (+, –)
312	25777282	Battery Spring (+, –)
313	25825250	Bush, Handle
314	25848038	Lock Pin
315	25864166	Battery Contact (+)
316	25886110	Knob, Speaker Lock
317	25815262	Handle Ass'y
318	25883416	Cassette Cover Ass'y
319	22714329	Frame
320	22741452	Pointer
321	22742162	Pulley
322	22743337	Tuning Shaft
323	25783195	Bush
324	22742324	Dial Drum
325	25776604	Spring, Drum
327	25883303	Speaker Box Front Ass'y
328	25883304	Speaker Box Back Ass'y, R
329	25883305	Speaker Box Back Ass'y, L
330	25882739	Battery Cover
331	22703279	E Ring
332	22701436	Screw, 3ϕ x 8mm, TPAN
333	22707670	Screw, 1.7ϕ x 4mm, PAN
334	22707801	Screw, 3ϕ x 12mm, BID Tapping
335	22707806	Screw, 3ϕ x 25mm BID Tapping
336	22707810	Screw, 3ϕ x 35mm, BID Tapping
337	22707826	Screw, 3ϕ x 10mm, BID Tapping
338	22707846	Screw, 3ϕ x 8mm, BID Tapping
339	22707910	Screw, 3ϕ x 6mm, BID Tapping
340	22708007	Screw, 4ϕ x 10mm, BID Tapping
341	25808832	Name Plate (TE, IT)

Symbol No.	Part No.	Description
341	25808955	Name Plate (TU)
342	22707536	Screw, 3ϕ x 10mm, BID
343	25808984	Name Plate (Speaker) (IT)

15. PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should by replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
TRANSISTORS, IC'S & DIODES		
Q001	B0325502	IC, TA7358AP
Q002, 003	A6332440	Transistor, 2SC2458-GR
Q101	B0358070	IC, TA7757P
Q201	B0325350	IC, TA7343P
Q301, 302, 303, 304, 305, 306, 307, 308 309, 310, 311, 312	A6332440	Transistor, 2SC2458-GR
Q313	B0319970	IC, TA7233P
Q403, 404	A6733120	Transistor, 2SC732TMNEW-GR
Q405, 406	A6332440	Transistor, 2SC2458-GR
Q407, 408, 409, 410	A6048310	Transistor, 2SK30A-TM, R
Q411	A6332440	Transistor, 2SC2458-GR
Q412	A6534060	Transistor, 2SA1015-GR
Q413	A6332440	Transistor, 2SC2458-GR
Q414, 415	A6344210	Transistor, 2SC2878-B
Q416	A6332440	Transistor, 2SC2458-GR
Q417	B0356695	IC, TA7668BP
Q501	A6319300	Transistor, 2SC1950NEW-Y
Q901	A6321240	Transistor, 2SC2120-Y
D301, 302	A7160570	Diode, 1SS176
D303, 304, 306	A8606700	Diode, TLG211, LED
D305	A8603170	Diode, TLR211, LED
D401	A7160570	Diode, 1SS176
D603, 604, 605, 606, 607, 608, 609	A7160570	Diode, 1SS176
⚠ D901	A7682012	Diode, 1B2C1 (T)
⚠ D902	A7682052	Diode, 1B2Z1 (T)
D903, 904, 905, 906	A7160570	Diode, 1SS176
D907	A7110115	Diode, 05Z6.8Y
D908	A8603170	Diode, TLR211, LED

Symbol No.	Part No.	Description
ELECTRICAL PARTS		
L001	22294533	Coil, FM RF
L002	22294534	Coil, Oscillator, FM
L003	22243004	Coil, Antenna, MW
L004	22245389	Coil, Oscillator, LW
L006	22285321	Coil, Oscillator, SW
L007	22245385	Coil, Oscillator, MW
L008	22282256	Coil, SW Antenna
L009	22291188	Coil, Choke 1.5μH
L101	22265821	IF Transformer, FM
L102	22264837	IF Transformer, AM
L103	22264838	IF Transformer, AM
L104	22265873	IF Transformer, FM
L201	22241066	Coil, Trap
L501	22235227	Coil, Bias Oscillator
⚠ T901	22224351	Transformer, Power (TE, IT)
⚠ T901	22224352	Transformer, Power (TU)
S2-1 ∿ 2-6	22196430	Switch, Lever, Band Select
S3-1 ∿ 3-2	22196292	Switch, Lever, MODE/ BEAT Select
S4-1 ∿ 4-4	22196431	Switch, Slide, AUX/PHONO Select
S5-1 ∿ 5-8	22196240	Switch, Lever, Function
S7	22196305	Switch, Leaf, FF/REW
S8	22196063	Switch, Leaf, FOW/REW
S9	22196063	Switch, Leaf, REW MUTE
S10	22196305	Switch, Leaf, PAUSE
S11	22196063	Switch, Leaf, REC
S12	22196323	Switch, Leaf, Power
J303, 304	22198020	Jack, US1P
J305	22198015	Jack, 3.5φ, Headphone
J401	22167975	Din Jack, 5P
J402, 403	22198012	Jack, US2P
J407, 408	22198016	Jack, 3.5φ, Microphone
⚠ J901	22169062	AC Jack (TE, IT)
⚠ J901	22169080	AC Jack (TU)
Z001	22153121	Filter, FM RF
Z101	22153299	Filter, Ceramic, 10.7 MHz
Z102	22153083	Filter, Ceramic

Symbol No.	Part No.	Description
A001	22124710	Rod Antenna
W301, 302	22152519	Speaker, 10 cm
W303, 304	22152452	Speaker, 2 cm
G401	22154233	Built-in Microphone
EP01	22166156	Speaker Cord Pin
EP02	22165047	Fuse Holder
⚠ F901	22144293	Fuse, T1.6A, 250V (TE, IT)
⚠ F901	22144516	Fuse, T1.6A, 250V (TU)

CAPACITORS

D = ±0.5pF, J = ±5%, K = ±10%, M = ±20%, Z = +80–20%
ABBREVIATIONS: CD = Ceramic Disk, EL = Electrolytic, PP = Polypropyline, BL = Barrier Layer, MY = Mylar

C001, 003, 043, 044	22309184	Trimmer
C002, 024, 026, 027, 035, 042, 045	22308434	Variable
C009	22349102	CD, 1000pF, 50V, K
C010	22361509	CD, 5pF, 50V, D
C011	22360701	CD, 20pF, 50V, J, SL
C012	22342223	CD, 0.022mfd, 50V, Z
C013	22360134	CD, 22pF, 50V, J, CH
C014	22360146	CD, 18pF, 50V, J, RH
C015	22361309	CD, 3pF, 50V, D
C016	22349471	CD, 470pF, 50V, K
C018	22342223	CD, 0.022mfd, 50V, Z
C019	22360343	CD, 8pF, 50V, D, UJ
C020	22342223	CD, 0.022mfd, 50V, Z
C029, 030	22321048	PP, 270pF, 50V, J
C031	22321050	PP, 360pF, 50V, J
C033	22321064	PP, 3900pF, 50V, J
C041	22342223	CD, 0.022mfd, 50V, Z
C046	22349102	CD, 1000pF, 50V, K
C104, 105	22342223	CD, 0.022mfd, 50V, Z
C106	22349102	CD, 1000pF, 50V, K
C107	22342223	CD, 0.022mfd, 50V, Z
C108	22483470	EL, 47mfd, 10V
C109	22488478	EL, 0.47mfd, 50V
C201	22488479	EL, 4.7mfd, 50V

Symbol No.	Part No.	Description
C202	22342223	CD, 0.022mfd, 50V, Z
C203	22488339	EL, 3.3mfd, 50V
C204	22488109	EL, 1mfd, 50V
C205	22321057	PP, 1000pF, 50V, J
C206	22488109	EL, 1mfd, 50V
C207	22483221	EL, 220mfd, 10V
C208, 209	22342223	CD, 0.022mfd, 50V, Z
C211, 212	22488479	EL, 4.7mfd, 50V
C301, 302	22488478	EL, 0.47mfd, 50V
C303, 304	22362101	CD, 100pF, 50V, K
C305, 306	22485100	EL, 10mfd, 16V
C307, 308, 309, 310	22488228	EL, 0.22mfd, 50V
C311, 312, 313, 314	22360332	BL, 0.068mfd, 25V, M
C315, 316, 317, 318	22360329	BL, 0.022mfd, 25V, M
C319, 320, 321, 322	22360326	BL, 6800pF, 50V, M
C323, 324, 325, 326	22360323	BL, 2200pF, 25V, M
C327, 328	22360331	BL, 0.047mfd, 25V, M
C329, 330	22488478	EL, 0.47mfd, 50V
C331, 332	22349472	CD, 4700pF, 50V, K
C333	22483221	EL, 220mfd, 10V
C334	22342223	CD, 0.022mfd, 50V, Z
C339, 340	22488478	EL, 0.47mfd, 50V
C341, 342	22349102	CD, 1000pF, 50V, K
C343, 344	22485330	EL, 33mfd, 16V
C345	22483470	EL, 47mfd, 10V
C346	22440604	EL, 2200mfd, 16V
C347, 348	22483101	EL, 100mfd, 10V
C349, 350, 352	22370324	MY, 0.15mfd, 50V, J
C351	22482222	EL, 2200mfd, 6.3V
C404	22360331	BL, 0.047mfd, 25V, M
C405	22483470	EL, 47mfd, 10V
C407, 408	22488478	EL, 0.47mfd, 50V
C409, 410	22362101	CD, 100pF, 50V, K
C411, 412	22488228	EL, 0.22mfd, 50V
C413, 414	22360331	BL, 0.047mfd, 25V, M
C415, 416	22488109	EL, 1mfd, 50V
C417, 418	22485100	EL, 10mfd, 16V
C419, 420	22349152	CD, 1500pF, 50V, K
C421, 422	22362101	CD, 100pF, 50V, K
C423, 424	22483101	EL, 100mfd, 10V
C425, 426	22360543	BL, 8200pF, 25V, K
C427, 428	22342103	CD, 0.01mfd, 50V, Z

Symbol No.	Part No.	Description
C429, 430, 431, 432	22488109	EL, 1mfd, 50V
C433	22483471	EL, 470mfd, 10V
C434	22483101	EL, 100mfd, 10V
C435, 436	22349222	CD, 2200pF, 50V, K
C437, 438	22349472	CD, 4700pF, 50V, K
C439	22483470	EL, 47mfd, 10V
C440	22488479	EL, 4.7mfd, 50V
C441	22488228	EL, 0.22mfd, 50V
C442	22483101	EL, 100mfd, 10V
C443	22360329	BL, 0.022mfd, 25V, M
C501	22321055	PP, 680pF, 50V, J
C502	22371222	MY, 2200pF, 50V, J
C503	22371822	MY, 8200pF, 50V, J
C504	22485100	EL, 10mfd, 16V
C604	22488478	EL, 0.47mfd, 50V
C903	22483101	EL, 100mfd, 10V
C904	22485101	EL, 100mfd, 16V
C905, 906	22342223	CD, 0.022mfd, 50V, Z
C991	22370324	MY, 0.15mfd, 50V, J
C992	22342223	CD, 0.022mfd, 50V, Z

RESISTORS

1. Resistors are Fixed Carbon Film 1/6W, ±5% unless otherwise noted.
   K = 1000, M = 1000000
2. PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required, please use the substitutional fixed carbon film resistor of 1/6W, ±5% according to the following list.

R001	22584103	10K ohm (PRC)
R002	22584330	33 ohm
R003	22584104	100K ohm (PRC)
R004	22584183	18K ohm
R005	22651582	50K ohm, B, Variable, Tuning
R007	22584473	47K ohm (PRC)
R008, 009	22584183	18K ohm
R010	22584103	10K ohm
R011	22584473	47K ohm (PRC)
R102	22584101	100 ohm
R104	22584331	330 ohm (PRC)
R105	22584333	33K ohm (PRC)
R106	22584470	47 ohm (PRC)
R107	22584104	100K ohm (PRC)
R108	22584101	100 ohm

Symbol No.	Part No.	Description
R201	22584102	1K ohm (PRC)
R202	22658761	10K ohm, Semi-fixed, variable
R203	22584682	6.8K ohm (PRC)
R204	22584224	220K ohm (PRC)
R207, 208	22584332	3.3K ohm (PRC)
R209, 210	22584151	150 ohm (PRC)
R211, 212	22584222	2.2K ohm (PRC)
R221	22584121	120 ohm (PRC)
R303, 304	22584822	8.2K ohm
R305, 306	22584105	1M ohm
R307, 308	22584682	6.8K ohm (PRC)
R309, 310, 311, 312, 313, 314, 315, 316, 317, 318	22657324	100K ohm, Variable, Tone
R319, 320	22584471	470 ohm (PRC)
R321, 322	22584104	100K ohm (PRC)
R323, 324	22584103	10K ohm (PRC)
R325, 326	22584391	390 ohm (PRC)
R327, 328	22584104	100K ohm (PRC)
R329, 330	22584103	10K ohm (PRC)
R331, 332	22584471	470 ohm (PRC)
R333, 334	22584104	100K ohm (PRC)
R335, 336	22584103	10K ohm (PRC)
R337, 338	22584391	390 ohm (PRC)
R339, 340	22584104	100K ohm (PRC)
R341, 342	22584103	10K ohm (PRC)
R343, 344	22584471	470 ohm (PRC)
R345, 346	22584104	100K ohm (PRC)
R347, 348	22584103	10K ohm (PRC)
R349, 350	22584682	6.8K ohm (PRC)
R351, 352	22584822	8.2K ohm
R355, 356	22584104	100K ohm
R357, 358	22584472	4.7K ohm (PRC)
R359	22584101	100 ohm
R360	22584102	1K ohm
R361	22584681	680 ohm
R362	22584102	1K ohm
R365, 366	22651635	50K ohm, B, Variable, Balance
R367, 368	22584273	27K ohm (PRC)
R369	22651582	50K ohm, B, Variable, Volume
R371, 372	22584331	330 ohm (PRC)
R373, 374	22584101	100 ohm
R405, 406	22584473	47K ohm (PRC)
R407, 408	22584152	1.5K ohm (PRC)
R409, 410	22584472	4.7K ohm (PRC)

Symbol No.	Part No.	Description
R411	22584103	10K ohm (PRC)
R412	22584272	2.7K ohm (PRC)
R413	22584102	1K ohm (PRC)
R415, 416	22584683	68K ohm (PRC)
R417, 418	22584225	2.2M ohm
R419	22584222	2.2K ohm (PRC)
R420	22584222	2.2K ohm
R421, 422	22584152	1.5K ohm
R423, 424	22584153	15K ohm
R425, 426	22584332	3.3K ohm (PRC)
R427, 428	22584104	100K ohm (PRC)
R429, 430	22584222	2.2K ohm (PRC)
R431, 432	22584334	330K ohm
R433	22584390	39 ohm
R434	22584470	47 ohm
R435	22584272	2.7K ohm
R436	22584332	3.3K ohm
R437	22584122	1.2K ohm
R438	22584152	1.5K ohm
R439, 440	22584123	12K ohm
R441, 442	22584334	330K ohm (PRC)
R443, 444	22584472	4.7K ohm (PRC)
R445, 446	22584334	330K ohm (PRC)
R447, 448	22584153	15K ohm
R449, 450	22584102	1K ohm (PRC)
R453, 454	22584104	100K ohm (PRC)
R456	22584225	2.2M ohm
R457	22584103	10K ohm (PRC)
R458	22584104	100K ohm (PRC)
R459	22584124	120K ohm (PRC)

Symbol No.	Part No.	Description
R460	22584474	470K ohm
R461	22584332	3.3K ohm (PRC)
R462	22584680	68 ohm
R463	22584103	10K ohm
R464	22584332	3.3K ohm (PRC)
R465	22584224	220K ohm
R466	22584274	270K ohm (PRC)
R467	22584102	1K ohm (PRC)
R468	22584101	100 ohm
R469	22555103	10K ohm
R501	22584683	68K ohm (PRC)
R502	22584680	68 ohm
R503	22584681	680 ohm
R604	22584103	10K ohm (PRC)
R611	22584101	100 ohm
R901	22584122	1.2K ohm
R902	22584471	470 ohm
R903	22584562	5.6K ohm

ACCESSORIES

AC01	22904114	Owner's Manual (TE, IT)
AC01	22904115	Owner's Manual (TU)
AC03	22906523	Pop Label
⚠ AC04	22176578	Cord, Power (TU)
⚠ AC04	22176649	Cord, Power (TE, IT)

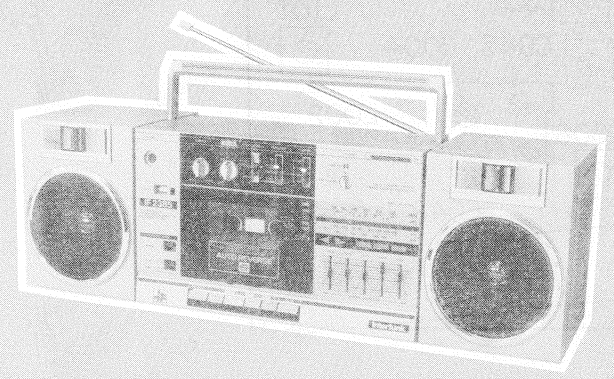
TOSHIBA CORPORATION
1-1, SHIBAURA, 1-CHOME, MINATO-KU, TOKYO 105, JAPAN

SERVICE DATA
SUPPLEMENT-A

Interfunk

STEREO RADIO CASSETTE RECORDER

IF 2385



Verwenden Sie diese Ergänzung zusammen mit der Original Ausgabe Nr. 110-348 um das Model RT-SX4 mit der Ergänzungsausgabe reparieren zu können.

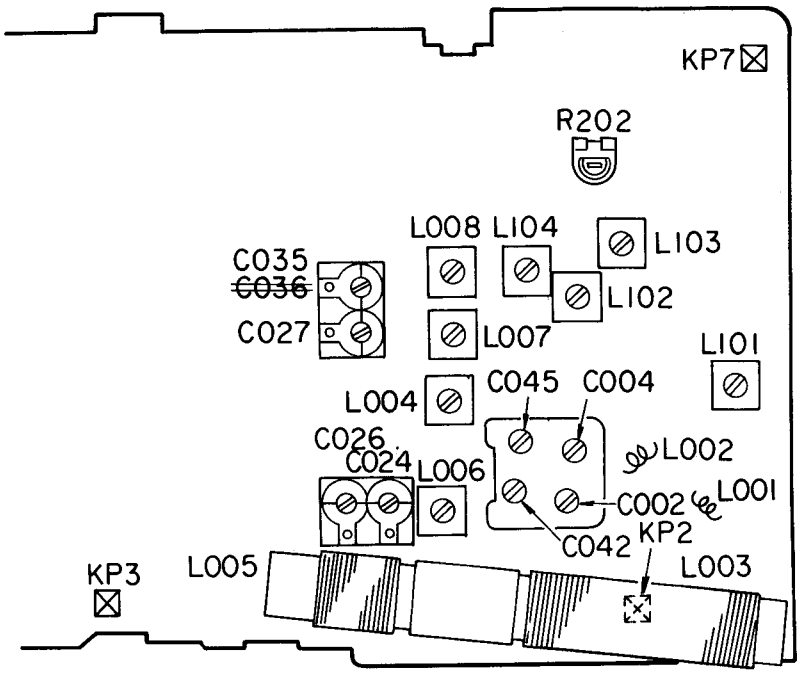
Die technischen Daten sind die selben wie in der Originalausgabe.

1. CORRECTION

Please correct a typographic error of a symbol number found on the adjustment P.C. Board as follows;

Item to be corrected: Trimmer Capacitor

Incorrect		**Correct**
C036	→	C035



2. PARTS LIST

Symbol No.	Part No.	Description
TRANSISTORS, IC's & DIODES		
D001	A7160570	Diode, 1SS176
ELECTRICAL PARTS		
L001	22294533	Coil, Antenna, FM
L003, 005	22243004	Coil, MW/LW Antenna
L006	22285321	Coil, SW Antenna
L008	22282256	Coil, SW Oscillator
L103	22264838	IF Transformer, FM
L104	22265873	IF Transformer, AM
CAPACITORS		
C001, 002, 003, 004, 042, 043, 044, 045	22308434	Variable Capacitor
C024, 026, 027, 035	22309184	Trimmer Capacitor

Symbol No.	Part No.	Description
ACCESSORIES		
AC01	22904607	Owner's Manual
AC03	22907057	Pop Label
CABINET PARTS		
301	25885008	Front Cabinet Ass'y
302	25885007	Back Cabinet Ass'y
306	25886274	Knob, Slide
317	25815271	Handle Ass'y
318	25885011	Cassette Cover Ass'y
327	25883595	Speaker Box Ass'y, Front
328	25885009	Speaker Box Ass'y, Back, R
329	25885010	Speaker Box Ass'y, Back, L
330	25882973	Battery Cover
341	25809197	Nameplate

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